

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION

WIN-1485

Effective December 1, 2011

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **May 2012**.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

**Ultra Aluminum Clad Wood Double Hung Transom Windows, Individual, Non-impact Resistant,**  
manufactured by

**Kolbe & Kolbe Millwork Co., Inc.**  
**1323 South Eleventh Avenue**  
**Wausau, WI 54401**  
**(715) 842 - 5666**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

The aluminum clad wood double hung transom windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for aluminum clad wood double hung transom windows based on the following tested constructions:

### General Description:

System	Description	Rating	Hallmark Certification
1	Ultra Double Hung Transom; Clad	CW-PG65 96x60-FW FW-C65 96 x 60	413-H-990.00 413-H-990.01
2	Ultra Double Hung Transom; Clad	CW-PG65 120x27-TR TR-C65 120 x 27	413-H-991.00 413-H-991.01

### Product Dimensions:

System	Overall Size	Sash Size	Glass Size
1	96" x 60"	N/A	94 $\frac{3}{8}$ " x 58 $\frac{3}{8}$ "
2	120" x 27"	N/A	118 $\frac{3}{8}$ " x 25 $\frac{3}{8}$ "

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**Glazing Description:**

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	IG-1	GM-1
2	IG-2	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**

IG-1: The sash contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of two  $\frac{5}{32}$ " heat strengthened glass lites that are separated by a desiccant-filled stainless steel spacer system. The glass thickness used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

IG-2: The sash contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of two  $\frac{3}{16}$ " annealed glass lites that are separated by a desiccant-filled stainless steel spacer system. The glass thickness used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

**Glazing Method Key:**

GM-1: The insulating glass units are set from the interior onto a bed silicone. Along the interior, wood glazing stops are secured with staples spaced 2 inch from each corner and 10 inches on center.

**Frame Construction:** The frame members consist of molded pine. The frame corners are coped, butted, sealed with silicone, and secured with screws and staples.

**Aluminum cladding:** The extruded aluminum cladding is mitered cut, corner keyed, sealed with silicone, and secured with screws at each corner.

**Product Identification:** A certification program label (WDMA Hallmark Certified) will be affixed to the window. The certification program label includes the manufacturer's name; product name; performance characteristics; the approved inspection agency (WDMA); and the applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05 and AAMA/WWDA/CSA 101/I.S.2/A440-08.

## LIMITATIONS

**Design pressures (DP):**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	96	60	± 65
2	120	27	± 65

**Impact Resistance:** These assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These assemblies will need to be protected with an impact protective system when used in areas where windborne debris protection is required.

**Acceptance of Smaller Assemblies:** Windows assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

## INSTALLATION INSTRUCTIONS

**General:** The window assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

**Installation:**

**Option 1:** The window assembly shall be fastened to minimum Southern Yellow Pine lumber. The window assembly is secured to the wall framing using Kolbe & Kolbe metal installation clips. The installation clips ( $1\frac{5}{8}$ " x  $10\frac{1}{16}$ " x 0.04") are secured to the window frame side jambs, head, and sill. The clips are secured to the window frame with two (2) No. 8 x  $\frac{3}{4}$ " screws. The clips are secured to the wall framing with one (1) No. 8 x  $1\frac{3}{4}$ " screw. The fasteners shall be long enough to penetrate a minimum of  $1\frac{1}{2}$ " into the wall framing. The spacing of the clips is specified in the table below.

**Installation Clip Spacing:**

System	Head and Sill (distance from each end)	Head and Sill (on center spacing)	Side Jambs (distance from each end)	Side Jambs (on center spacing)
1	12"	12"	15"	15"
2	20"	20"	$13\frac{1}{2}$ "	N/A

**Option 2:** The window assembly shall be fastened to minimum Southern Yellow Pine lumber. The window assembly is secured to the wall framing using the window frame with minimum No. 10x2  $\frac{1}{2}$ " screws. The fasteners shall be long enough to penetrate a minimum of  $1\frac{1}{2}$ " into the wall framing. The spacing of the fasteners is specified in the table below.

**Fastener Spacing:**

System	Head and Sill (distance from each end)	Head and Sill (on center spacing)	Side Jambs (distance from each end)	Side Jambs (on center spacing)
1	$8\frac{3}{4}$ "	$8\frac{3}{4}$ "	12"	12"
2	15"	15"	$13\frac{1}{2}$ "	N/A

**Nailing Flange (both options):** The perimeter of the window is secured with minimum 12 gauge smooth shank roofing nails spaced 7 inches on center penetrating through the nailing flange.

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.